Applicant: Kenneth M. Adams et al.

Serial No.: 10/657,915 Filed: September 9, 2003

Docket No.: M190.145.101 / P-263.00 US

Title: SURGICAL MICRO-BURRING INSTRUMENT AND METHOD OF PERFORMING SINUS SURGERY

IN THE CLAIMS

Please cancel claims 25-29.

Please add claims 30-34.

Please amend claims 7, 9, and 15 as follows:

1.(Original) A surgical micro-burring instrument comprising:

an outer tubular member having a proximal section, an intermediate section, a distal section, and a central lumen extending from the proximal section to the distal section, the distal section forming:

a pocket fluidly connected to the central lumen, the pocket having a bottom surface and an opposed upper opening;

an elevator tip extending distal the pocket; and

an inner tubular member rotatably received within the central lumen, a distal end of the inner tubular member forming a bur positioned within the pocket, such that upon final assembly, at least a portion of the bur is exposed relative to the outer tubular member via the upper opening of the pocket.

2.(Original) The instrument of claim 1, wherein the pocket terminates at a distal-most end, and further wherein the elevator tip distally extends at least 0.05 inch relative to the distal-most end of the pocket.

3.(Original) The instrument of claim 2, wherein the elevator tip includes an upper surface extending from the distal-most end of the pocket, the upper surface including a proximal region and a distal region, wherein at least a portion of the distal region extends from the proximal region in an angular fashion in longitudinal cross-section.

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4.(Original) The instrument of claim 3, wherein the angular extension of the distal region

defines an included angle in the range of $10^{\circ} - 50^{\circ}$ relative to a central axis of the outer tubular

member.

5.(Original) The instrument of claim 4, wherein the included angle is approximately 20°.

6.(Original) The instrument of claim 4, wherein the included angle is approximately 40°.

7.(Currently Amended) The instrument of claim 3, wherein at least a portion of the

proximal region of the top-upper surface of the elevator tip extends downwardly from the distal-

most end of the pocket.

8.(Original) The instrument of claim 7, wherein the proximal region is curved in longitudinal

cross-section.

9.(Currently Amended) The instrument of claim 1, wherein the elevator tip terminates in a

distal end point, and further wherein the distal end point is laterally above the a distal-most end

of the pocket when the outer tubular member is oriented such that the bottom surface of the

pocket is below the upper opening.

10.(Original) The instrument of claim 1, wherein the distal section further includes a proximal

portion proximal the pocket, the proximal portion forming a tube, and further wherein the pocket

is defined by a side wall having an upper edge including a proximal zone extending from the

proximal portion in an angularly downward fashion.

11.(Original) The instrument of claim 10, wherein angular extension of the proximal zone

defines an included angle in the range of 100°- 140° relative to a central axis of the proximal

portion.

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12.(Original) The instrument of claim 11, wherein the included angle is approximately 120°.

13.(Original) The instrument of claim 10, wherein the upper edge further includes an

intermediate zone extending from the proximal zone parallel with a central axis of the proximal

portion.

14.(Original) The instrument of claim 10, wherein the upper edge further includes an

intermediate zone extending from the proximal zone, and a distal zone extending from the

intermediate zone, the distal zone extending downwardly relative to the intermediate zone.

15.(Currently Amended) The instrument of claim 1, wherein the lower-bottom surface forms

at least one opening fluidly connected to an irrigation source.

16.(Original) The instrument of claim 15, further comprising:

an irrigation tube extending exteriorly along the outer tubular member and fluidly

connected to the at least one opening.

17.(Original) The instrument of claim 1, wherein the pocket is further terminates at a distal-

most end point, and further wherein upon final assembly, a distal end of the bur is longitudinally

spaced from the distal-most end point.

18.(Original) The instrument of claim 1, further comprising:

an aspiration passage extending through the outer tubular member for aspirating cut

tissue.

19.(Original) The instrument of claim 18, wherein the inner tubular member forms a lumen

defining the aspiration passage with the bur forming an opening at a distal end thereof, and

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further wherein the opening is in fluid communication with the lumen of the inner tubular member.

20.(Original) The instrument of claim 1, wherein the intermediate section of the outer tubular member defines a longitudinal bend.

21.(Original) The instrument of claim 20, wherein the longitudinal bend is approximately 12° relative to a central axis defined by the proximal section.

22.(Original) The instrument of claim 1, wherein the instrument is adapted for use in a septoplasty procedure.

23.(Original) The instrument of claim 1, wherein the elevator tip is selectively axially moveable relative to the bur.

24.(Original) The instrument of claim 23, further comprising:

an intermediate tubular member co-axially disposed between the inner tubular member and the outer tubular member, the intermediate tubular member forming a distal window through which at least a portion of the bur is exposed;

wherein the outer tubular member is slidably received over the intermediate tubular member.

25. – 29.(Cancelled)

30.(New) The instrument of claim 1, wherein the bur has a continuous circumferential surface.

31.(New) The instrument of claim 1, wherein the bur forms a plurality of cutting flutes.

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32.(New) The instrument of claim 1, wherein the bur has a shape selected from the group

consisting of cylindrical, spherical, hemispherical, ellipsoidal, and pear.

33.(New) The instrument of claim 1, wherein the distal section further includes a proximal

portion proximal the pocket, the proximal portion forming a tube, and further wherein the pocket

is defined by a side wall having an upper edge including a proximal zone extending from the

proximal portion to a distal-most end of the pocket opposite the proximal portion and at which

the central lumen terminates, and further wherein the distal-most end is below a central axis of

the central lumen when the outer tubular member is spatially oriented such that the bottom

surface is a lowest-most surface of the pocket.

34.(New) The instrument of claim 1, wherein the bottom surface forms a plurality of ports

opposite the upper opening.